

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An electromagnetic wave reception device used with a transmission device having a predetermined transmission duration, comprising:

an input reception portion for detecting an input electromagnetic wave transmitted from a transmission terminal at a predetermined timing and receiving the input electromagnetic wave;

a lock control portion for unlocking or locking a lock mechanism according to the input electromagnetic wave received by the input reception portion; and

a timing change portion for changing a timing a duration of intervals between detection periods, the detection periods being periods at which the input reception portion detects the input electromagnetic wave,

wherein the timing change portion sets a changes the duration of the intervals between the detection periods frequency of the timing to be shorter higher when input electromagnetic waves are detected a plurality of times for a predetermined period of time such that the duration of the intervals between the detection periods of the reception device, prior to the change of the duration, is longer than the predetermined transmission duration of the transmission device and the duration of the intervals between the detection periods of the reception device, subsequent to the change of the duration, is shorter than the predetermined transmission duration of the transmission device.

2. (Currently Amended) The electromagnetic wave reception device of claim 1, wherein the timing change portion changes the duration of intervals between detection periods ~~timing~~ according to a time zone.

3. (Currently Amended) The electromagnetic wave reception device of claim 1, further comprising:

a position detection portion for detecting a position of the electromagnetic wave reception device;

wherein the timing change portion changes the duration of intervals between detection periods ~~timing~~ according to the position detected by the position detection portion.

4. (Currently Amended) The electromagnetic wave reception device of claim 1, further comprising:

a history information generation portion for generating history information, which is information on a history of reception of the input electromagnetic wave by the input reception portion;

wherein the timing change portion changes the duration of intervals between detection periods ~~timing~~ according to the history information.

5. (Original) The electromagnetic wave reception device of claim 4, wherein the history information generation portion generates history information of time when the input electromagnetic wave is received.

6. (Previously Presented) The electromagnetic wave reception device of claim 4, further comprising:

a position detection portion for detecting a position of the electromagnetic wave reception device;

wherein the history information generation portion generates history information of a position where the input electromagnetic wave is received, according to the position detected by the position detection portion.

7. (Previously Presented) The electromagnetic wave reception device of claim 1, wherein at least the input reception portion is powered by a battery.

8. (Previously Presented) A vehicle comprising the electromagnetic wave reception device of claim 1.

9. (Original) The vehicle of claim 8, wherein at least the input reception portion is powered by a battery.

10. (Currently Amended) An electromagnetic wave transmission device used with a reception device having detection periods at which the reception device detects input electromagnetic waves, a duration of the intervals between detection periods of the reception device having a first duration, comprising:

a switch;

a transmission portion for transmitting an electromagnetic wave for a predetermined, first period-of-time duration when the switch is turned on; and

a transmission control portion for controlling the transmission portion so as to transmit a first electromagnetic wave for the predetermined, first time duration when the switch is turned on and a second electromagnetic wave for a second time duration longer period-of-time- when the switch is turned on at least twice within a predetermined period of time, the second time duration being longer in duration than the predetermined, first time duration ~~a first electromagnetic wave when the switch is turned on at least twice within a predetermined period of time~~ such that the predetermined, first time duration is set to be shorter than the first duration of the intervals between detection periods of the reception device and the second time duration is set to be longer than the first duration of the intervals between detection periods of the reception device.

11. (Currently Amended) A keyless entry system comprising:

an electromagnetic wave reception device installed in a vehicle comprising:

an input reception portion for detecting an input electromagnetic wave transmitted from a transmission terminal at a predetermined timing and receiving the input electromagnetic wave;

a lock control portion for unlocking or locking a lock mechanism according to the input electromagnetic wave received by the input reception portion; and

a timing change portion for changing ~~a timing~~ a duration of intervals between detection periods, the detection periods being periods at which the input reception portion detects the input electromagnetic wave; and

an electromagnetic wave transmission device for transmitting a signal to the electromagnetic wave reception device,

wherein the timing change portion ~~sets~~ changes the duration of the intervals between the detection periods ~~frequency of the timing to be shorter~~ higher when input electromagnetic waves are detected a plurality of times for a predetermined period of time such that the duration of the intervals between the detection periods of the reception device, prior to the change of the duration, is longer than a predetermined transmission duration of the transmission device and the duration of the intervals between the detection periods of the reception device, subsequent to the change of the duration, is shorter than the predetermined transmission duration of the transmission device.

12. (Currently Amended) The keyless entry system of claim 11, wherein the electromagnetic wave transmission device comprising:

a switch;

a transmission portion for transmitting an electromagnetic wave ~~for a predetermined period of time~~ when the switch is turned on; and

a transmission control portion for controlling the transmission portion so as to transmit a first electromagnetic wave for the predetermined transmission duration when the switch is turned on and a second electromagnetic wave for a second time duration a longer period of time when the switch is turned on at least twice within a predetermined period of time, the second time duration being longer in duration than the predetermined transmission duration ~~a first electromagnetic wave when the switch is turned on at least twice within a predetermined period of time.~~

13. (Previously Presented) The electromagnetic wave reception device of claim 2, wherein at least the input reception portion is powered by a battery.

14. (Previously Presented) The electromagnetic wave reception device of claim 3, wherein at least the input reception portion is powered by a battery.

15. (Previously Presented) The electromagnetic wave reception device of claim 4, wherein at least the input reception portion is powered by a battery.

16. (Previously Presented) The electromagnetic wave reception device of claim 5, wherein at least the input reception portion is powered by a battery.

17. (Previously Presented) The electromagnetic wave reception device of claim 6, wherein at least the input reception portion is powered by a battery.

18. (Previously Presented) A vehicle comprising the electromagnetic wave reception device of claim 2.

19. (Previously Presented) A vehicle comprising the electromagnetic wave reception device of claim 3.

20. (Previously Presented) A vehicle comprising the electromagnetic wave reception device of claim 4.

21. (Previously Presented) A vehicle comprising the electromagnetic wave reception device of claim 5.

22. (Previously Presented) A vehicle comprising the electromagnetic wave reception device of claim 6.

23. (Previously Presented) The electromagnetic wave reception device of claim 1, further comprising:

a clock portion for outputting a clock signal having a selected clock frequency among a plurality of clock frequencies, wherein:

the input reception portion detects the input electromagnetic wave at periodic intervals corresponding to the selected clock frequency of the clock signal,

the timing change portion changes the selected clock frequency at which the input reception portion detects the input electromagnetic wave, and

responsive to the input reception portion receiving the input electromagnetic wave a predetermined number of times in the predetermined period of time, the timing change portion changes a current clock frequency to a further clock frequency among the plurality of clock frequencies, as the selected clock frequency, the further clock frequency being a higher frequency than the current clock frequency.

24. (Previously Presented) The electromagnetic wave reception device of claim 23, further comprising a switch, wherein responsive to the switch being turned on or off, the timing change portion changes the selected clock frequency to a highest clock frequency from among the plurality of clock frequencies.

25. (Previously Presented) The keyless entry system of claim 11, wherein the electromagnetic wave reception device further comprises:

a clock portion for outputting a clock signal having a selected clock frequency among a plurality of clock frequencies such that: (1) the input reception portion detects the input electromagnetic wave at periodic intervals corresponding to the selected clock frequency of the clock signal, (2) the timing change portion changes the selected clock frequency at which the input reception portion detects the input electromagnetic wave, and (3) responsive to the input reception portion receiving the input electromagnetic wave a predetermined number of times in the predetermined period of time, the timing change portion changes a current clock frequency to a further clock frequency among the plurality of clock frequencies, as the selected clock frequency, the further clock frequency being a higher frequency than the current clock frequency.

26. (Previously Presented) The keyless entry system of claim 25, wherein responsive to the vehicle being turned on or off, the timing change portion changes the selected clock frequency to a highest clock frequency from among the plurality of clock frequencies.